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Water-Data Report 2008

**0214642825 BRIAR CREEK NEAR CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°14'10", long 80°46'16" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1998 to current year.

REVISED RECORDS.--WDR NC-2003-1B: 1998-2002 (daily discharges).

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 672.00 ft, North American Vertical Datum of 1988, from levels.  
Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 800 ft<sup>3</sup>/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year, no flow, also occurred October 1-19, August 11-13, 20-25.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.24	0.02	0.67	30	0.68	2.5	0.97	0.13	0.03	0.87	1.7
2	0.00	0.22	0.03	0.40	1.3	0.63	1.7	0.99	0.15	0.03	0.12	0.91
3	0.00	0.24	0.04	0.31	0.55	0.77	6.1	0.94	0.22	0.02	0.21	1.1
4	0.00	0.33	e0.14	0.09	0.40	91	4.7	1.1	0.25	1.3	0.12	1.2
5	0.00	0.34	e0.35	0.09	0.34	14	7.3	1.1	0.15	0.55	0.09	1.1
6	0.00	0.36	0.13	0.13	0.53	2.3	2.4	1.0	0.14	3.9	0.07	1.4
7	0.00	0.37	0.14	0.15	0.63	11	1.6	1.1	0.32	0.16	0.02	1.2
8	0.00	0.48	1.1	0.17	0.48	3.9	1.4	0.92	0.45	37	0.01	3.0
9	0.00	0.48	0.78	0.15	0.48	1.7	1.5	1.1	0.58	2.6	0.01	1.4
10	0.00	0.40	0.12	1.9	0.43	1.5	1.4	1.1	0.62	e0.50	0.01	112
11	0.00	0.34	0.47	1.2	0.46	1.4	1.5	2.4	7.6	e0.10	0.01	12
12	0.00	0.37	0.71	0.19	1.6	1.4	2.7	1.0	0.92	0.02	0.00	2.3
13	0.00	0.48	0.29	0.14	8.1	1.4	1.4	1.2	0.07	41	3.4	1.3
14	0.00	0.48	0.34	0.16	1.9	1.5	1.3	1.3	0.55	1.9	0.20	0.93
15	0.00	2.1	3.4	0.15	0.54	56	1.2	1.7	0.66	0.14	0.46	0.87
16	0.00	0.41	11	0.15	0.48	5.6	1.2	3.1	0.50	0.03	0.37	17
17	0.00	0.13	0.80	15	0.51	1.9	1.2	1.00	0.48	0.07	1.6	3.8
18	0.00	0.09	0.54	1.4	1.6	1.4	1.2	1.4	0.45	0.13	0.06	1.1
19	3.9	0.14	0.56	3.4	0.39	14	1.4	1.1	0.45	0.15	0.01	0.97
20	0.05	0.13	0.58	1.2	0.34	3.8	1.8	0.88	1.3	0.08	0.01	1.2
21	0.01	0.16	2.4	0.41	0.64	1.6	1.1	1.0	16	0.13	0.00	1.7
22	0.01	0.76	0.49	0.63	3.1	1.6	1.1	0.82	29	2.3	0.00	2.1
23	0.02	0.39	2.5	0.71	0.80	1.5	1.1	0.98	9.0	9.3	0.00	1.9
24	12	0.24	e0.38	0.51	0.62	1.5	1.1	1.3	0.13	0.49	0.00	1.7
25	26	0.22	e0.27	0.48	0.63	1.4	1.3	1.3	0.02	0.24	8.3	2.4
26	13	1.1	e9.9	0.58	6.6	1.4	9.6	1.4	0.21	0.39	187	27
27	1.1	0.66	1.4	0.62	0.89	1.4	6.4	1.5	1.3	0.56	677	12
28	0.30	0.32	9.9	0.49	0.48	1.5	22	10	0.08	0.52	6.8	1.3
29	0.24	0.15	6.6	0.53	0.44	1.7	2.6	1.0	0.05	0.84	2.3	0.79
30	0.24	0.06	24	1.1	---	1.5	1.2	0.27	0.03	0.49	2.0	0.62
31	0.24	---	3.4	0.31	---	3.7	---	0.16	---	11	2.0	---
<b>Total</b>	57.11	12.19	82.78	33.42	65.26	234.68	93.0	45.13	71.81	115.97	893.05	217.99
<b>Mean</b>	1.84	0.41	2.67	1.08	2.25	7.57	3.10	1.46	2.39	3.74	28.8	7.27
<b>Max</b>	26	2.1	24	15	30	91	22	10	29	41	677	112
<b>Min</b>	0.00	0.06	0.02	0.09	0.34	0.63	1.1	0.16	0.02	0.02	0.00	0.62
<b>Cfsm</b>	0.35	0.08	0.51	0.21	0.43	1.46	0.60	0.28	0.46	0.72	5.54	1.40
<b>In.</b>	0.41	0.09	0.59	0.24	0.47	1.68	0.67	0.32	0.51	0.83	6.39	1.56

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.03	4.17	4.43	4.98	4.93	8.01	6.86	5.09	5.22	4.72	6.49	6.46
<b>Max</b>	7.12	20.7	10.6	12.0	7.54	21.6	22.2	30.3	25.3	13.2	28.8	24.4
(WY)	(2000)	(2007)	(2003)	(1999)	(2007)	(2003)	(2003)	(2003)	(2003)	(2005)	(2008)	(2004)
<b>Min</b>	0.41	0.41	1.08	1.08	1.78	2.61	1.36	1.46	0.33	1.25	0.29	0.45
(WY)	(2001)	(2008)	(2002)	(2008)	(2002)	(2006)	(2002)	(2008)	(2002)	(2007)	(2001)	(2007)

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**SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>		<b>Water Year 2008</b>		<b>Water Years 1998 - 2008</b>	
<b>Annual total</b>		1,435.14		1,922.39		
<b>Annual mean</b>		3.93		5.25		5.36
<b>Highest annual mean</b>					12.7	2003
<b>Lowest annual mean</b>					1.96	2002
<b>Highest daily mean</b>	223	Mar 2	677	Aug 27	677	Aug 27, 2008
<b>Lowest daily mean</b>	0.00	Sep 11	0.00	Oct 1	0.00	Aug 17, 1999
<b>Annual seven-day minimum</b>	0.00	Sep 24	0.00	Oct 1	0.00	Aug 4, 2002
<b>Maximum peak flow</b>			3,480	Aug 27	3,480	Aug 27, 2008
<b>Maximum peak stage</b>			9.43	Aug 27	9.43	Aug 27, 2008
<b>Instantaneous low flow</b>			0.00	Oct 1	0.00	Aug 18, 1999
<b>Annual runoff (cfsm)</b>		0.756		1.01		1.03
<b>Annual runoff (inches)</b>		10.27		13.75		14.01
<b>10 percent exceeds</b>		6.5		6.7		8.5
<b>50 percent exceeds</b>		1.3		0.71		1.6
<b>90 percent exceeds</b>		0.01		0.02		0.14

<sup>a</sup>See Remarks.

